

TASK ANALYSIS
AEC I (M1-M2, M4-M6)

November 1, 2004
TG-17-2004-IBC, Appendix E-1

MODULES (M)	Module Tasks & Representative Subtasks	Percent of All Tasks
MODULE 1: Clark County Codes, Technician/Inspector duties & responsibilities, project documentation and communication, safety on grading projects, Agency's QSM Procedures		13%
	TASK M 1.1 - 2000 International Building Code (IBC)	
Subtasks:	1 Chapter 17, Section 1704.6 Soils	
	2 Chapter 17, Section 1803 (1803.1, 1803.2, 1803.3, 1803.4) Excavation, Grading and Fill	
	TASK M 1.2 - 2003 Southern Nevada Amendments to the 2000 International Building Code (SNA-IBC)	
Subtasks:	1 1802.6 Reports	
	2 1803.4 Compacted Fill material	
	3 Appendix K, Section 1.2 Definitions	
	4 Appendix K, Section 1.5 Inspections	
	5 Appendix K, Section 1.6 Excavations	
	6 Appendix K, Section 1.7 Fills	
	7 Appendix K, Section 1.8 Setbacks	
	8 Appendix K, Section 1.9 Drainage and Terracing	
	TASK M 1.3 - 2004 Building Administrative Code of Clark County (BAC)	
Subtasks:	1 22.02.520 Approved Special Inspector	
	1 22.02.525 Duties and Responsibilities of the Quality Assurance Agency and Special Inspector	
	TASK M 1.4 - Technical Guidelines (TG)	
	1 TG-20 (Current Release): Special Inspector Responsibilities	
	TASK M 1.5 - Quality Systems Manual (QSM)	
Subtasks:	1 Project documentation & communication	
	2 Safety on the job	
	TASK M 1.6 - General	
Subtasks:	1 Units of measurement, conversions and basic arithmetic	
	MODULE 2: Typical Laboratory tests of soils	35%
	TASK M 2.1 - Moisture-Density Relation of soils (ASTM D 1557)	
Subtasks:	1 Understand the test	
	2 Perform the test	
	3 Understand factors that may affect test results	
	4 Understand corrections to OMC and MDD for the presence of oversize rocks	

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TASK M 2.2	- Soil Sampling (ASTM D75)	
Subtasks:	1 Understand the test	
	2 Perform the test	
	3 Understand factors that may affect test results	
TASK M 2.3	- Visual Identification of soils (ASTM D 2488)	
Subtasks:	1 Understand the test	
	2 Perform the test	
	3 Understand factors that may affect test results	
TASK M 2.4	- Gradation (ASTM D422, ASTM C136, ASTM C117)	
Subtasks:	1 Understand the test	
	2 Perform the test	
	3 Understand factors that may affect test results	
MODULE 4: In-place field density testing using the Nuclear Gauge and Sandcone methods		30%
TASK M 4.1	- Sandcone Method (ASTM D 1556)	
Subtasks:	1 Equipment	
	2 materials	
	3 Calibration & maintenance	
	4 Testing procedure	
	5 Factors that may affect test results	
	6 Calculations	
	7 Documentation	

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TASK M 4.2	- Nuclear Gauge (ASTM D 2922 & D 3017)	
Subtasks:	1 Equipment	
	2 Calibration, standardization and maintenance	
	3 Testing procedure	
	4 Factors that may affect test results	
	5 Calculations	
	6 Documentation	
MODULE 5: Grading plans & construction staking		12%
TASK M 5.1	- Grading Plans	
Subtasks:	1 Identification of natural, existing, and design contours	
	2 Identification of Cut/fill line	
	4 Identification of cut areas	
	5 Identification of fill areas	
MODULE 6: Earthwork construction equipment		10%
TASK M 6.1	- Processing Equipment	
Subtasks:	1 Types & uses	
TASK M 6.2	- Compaction Equipment	
Subtasks:	1 Types & uses	
Number of Tasks is		Total AEC I
		100%
15		